

CLAIMS

What is claimed is:

1. A method comprising the steps of:

generating a radio frequency signal;

feeding said radio frequency signal to a conductor; said conductor generally being within a structure;

5 creating a quasi-static non-propagating electromagnetic field within said structure; and

using said electromagnetic field to convey said radio frequency signal to a receiver generally located within said structure.

2. A method as recited in Claim 1, in which said radio frequency signal is generated using the High Frequency band.

3. A method as recited in Claim 1, in which said radio frequency signal is generated using the Very High Frequency band.

4. A method as recited in Claim 1, in which said radio frequency signal is generated using the low end of the Ultra High Frequency band.

5. A method as recited in Claim 1, in which said radio frequency signal is generated using a frequency band which is characterized by a wavelength having a maximum dimension which is generally less than ten wavelengths in any dimension.

6. A method as recited in Claim 1, in which said radio frequency signal is generated using a frequency band which does not generally cause interference outside said structure in the HF band.

7. A method as recited in Claim 1, in which said radio frequency signal is fed to said conductor using a direct, hard-wired connection.

8. A method as recited in Claim 1, in which said radio frequency signal is fed to said conductor by exciting said conductor with transmitted radio frequency energy.

9. A method as recited in Claim 1, in which said conductor is an electrical wire.

10. A method as recited in Claim 1, in which said conductor is a water pipe.

11. A method as recited in Claim 1, in which said conductor is a structural member.

12. A method as recited in Claim 1, comprising the additional steps of:

allowing simultaneous operation in the HF, VHF and lower UHF band with multiple connections; and

filtering said multiple connections to insure signal separation.

13. A method as recited in Claim 1, comprising the additional steps of:

installing said receiver by inserting a conventional power plug into a conventional electrical socket; and

feeding said signal to said conductor through a third ground prong on said power plug.

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